

INTERNATIONAL SEARCH REPORT

PCT/GB2004/005350

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G02C7/04 G02B3/00 G02C7/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G02C G02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| Y | US 6 619 799 B1 (BLUM RONALD D ET AL) 16 September 2003 (2003-09-16) column 10, line 31 - column 18, line 39 | 1-10 |
| Y | US 4 601 545 A (KERN ET AL) 22 July 1986 (1986-07-22) claims 1,16 | 1-10 |
| Y | US 5 712 721 A (LARGE ET AL) 27 January 1998 (1998-01-27) claim 1; figures 1-3 | 1-10 |
| A | US 5 066 301 A (WILEY ET AL) 19 November 1991 (1991-11-19) the whole document | 1-10 |

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

24 March 2005

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PCT/GB2004/005350

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|---|---------------------|----------------------------|-----------------------------|
| US 6619799 | B1 | 16-09-2003 | AU 777787 B2 28-10-2004 |
| | | | BR 0012137 A 26-11-2002 |
| | | | CA 2377935 A1 11-01-2001 |
| | | | CN 1372650 A 02-10-2002 |
| | | | EP 1206720 A1 22-05-2002 |
| | | | EP 1411382 A2 21-04-2004 |
| | | | JP 2003504665 T 04-02-2003 |
| | | | MX PA01013461 A 04-09-2003 |
| | | | US 2002140899 A1 03-10-2002 |
| | | | US 2003231293 A1 18-12-2003 |
| | | | US 2004051846 A1 18-03-2004 |
| | | | US 2004056986 A1 25-03-2004 |
| | | | US 2004027536 A1 12-02-2004 |
| | | | US 2004084790 A1 06-05-2004 |
| | | | US 2004156021 A1 12-08-2004 |
| | | | AU 5900200 A 22-01-2001 |
| | | | AU 5900300 A 22-01-2001 |
| | | | AU 5900400 A 22-01-2001 |
| | | | AU 6058700 A 22-01-2001 |
| | | | WO 0102896 A1 11-01-2001 |
| | | | WO 0101848 A1 11-01-2001 |
| | | | WO 0102897 A1 11-01-2001 |
| | | | WO 0102895 A1 11-01-2001 |
| | | | US 2003058406 A1 27-03-2003 |
| | | | US 6517203 B1 11-02-2003 |
| | | | US 6491394 B1 10-12-2002 |
| | | | US 6491391 B1 10-12-2002 |
| | | | TW 567348 B 21-12-2003 |
| | | | TW 567052 B 21-12-2003 |
| | | | TW 594095 B 21-06-2004 |
| | | | TW 460279 B 21-10-2001 |
| US 4601545 | A | 22-07-1986 | AU 4431085 A 13-12-1985 |
| | | | CA 1223950 A1 07-07-1987 |
| | | | EP 0181395 A1 21-05-1986 |
| | | | JP 61502221 T 02-10-1986 |
| | | | WO 8505466 A1 05-12-1985 |
| US 5712721 | A | 27-01-1998 | AU 6434594 A 24-10-1994 |
| | | | CA 2159076 A1 13-10-1994 |
| | | | DE 69421394 D1 02-12-1999 |
| | | | DE 69421394 T2 10-02-2000 |
| | | | EP 0693188 A1 24-01-1996 |
| | | | EP 0918248 A2 26-05-1999 |
| | | | ES 2139739 T3 16-02-2000 |
| | | | WO 9423334 A1 13-10-1994 |
| | | | JP 8508826 T 17-09-1996 |
| US 5066301 | A | 19-11-1991 | CA 2072635 A1 10-04-1992 |
| | | | CN 1060595 A 29-04-1992 |
| | | | EP 0507900 A1 14-10-1992 |
| | | | JP 5502613 T 13-05-1993 |
| | | | WO 9205750 A1 16-04-1992 |